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The book demonstrates that Brownian agent models can be successfully applied in many different contexts, ranging from physicochemical pattern formation, to active motion and swarming in biological systems, to self-assembling of networks, evolutionary optimization, urban growth, economic agglomeration and even social systems.

Brownian Agents and Active Particles | SpringerLink

Brownian Agents and Active Particles. Collective Dynamics in the Natural and Social Sciences With a Foreword by J. Doyne Farmer Berlin: Springer 2003 (Springer Series in Synergetics) XVI, 420 p. 192 illus. Hardcover, ISBN 3-540-43938-2 EUR 59.95

Frank Schweitzer: Brownian Agents and Active Particles

Brownian Agents and Active Particles : Collective Dynamics in the Natural and Social Sciences. This book lays out a vision for a coherent framework for understanding complex systems. By developing the genuine idea of Brownian agents, the author combines concepts from informatics, such as multiagent systems, with approaches of statistical many-particle physics.

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Complex systems and agent models -- 2. Active particles -- 3. Aggregation and physicochemical structure formation -- 4. Self-organization of networks -- 5. Tracks and trail formation in biological systems -- 6. Movement and trail formation by pedestrians -- 7. Evolutionary optimization using Brownian searchers -- 8.

Brownian agents and active particles : collective dynamics ...
We review theoretical models of individual motility as well as collective dynamics and pattern formation of active particles. We focus on simple models of active dynamics with a particular emphasis on nonlinear and stochastic dynamics of such self-propelled entities in the framework of statistical mechanics. Examples of such active units in complex physico-chemical and biological systems are ...

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1The term “active Brownian particle” has mainly been used in the literature to denote the specific, simplified model of active matter described in this section, which consists of repulsive spherical particles that are driven by a constant force whose direction rotates by thermal diffusion.

Active particles in complex and crowded environments
Abstract. Active motion is a phenomenon found in a wide range of systems. In physicochemical systems, self-driven motion of particles can already be observed [340]. On the biological level, active, self-driven motion can be found on different scales, ranging from cells [186, 511] or simple microorganisms up to higher organisms such as birds and fish [8, 375].

Active Particles | SpringerLink
Active Brownian Particles are a useful model system for understanding emergent properties in the dynamics living organism due to the simplicity of the model. In its simplest form, it consists of identical disc shaped particles to move along a surface with a prescribed velocity.

Active Brownian Particles - University of Warwick
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Brownian Movement Books: Amazon.com
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